aiwa

COMPACT DISC STEREO SYSTEM
SISTEMA ESTEREO CON REPRODUCTOR DE DISCOS COMPACTOS
CHAINE STEREO AVEC LECTEUR DE DISQUES COMPACTS

NSX-V8000

OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI

En (English)

E (Español)

F (Français)

For Assistance And Information

Call Toll Free 1-800-BUY-AIWA

(U.S.A. Only)

COMPACT disc DIGITAL AUDIO

-NF5-904-018
60130AKY-U

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PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** — Do not use this unit near water, such as near a bathtub, washbowl, swimming pool, or the like.
2 **Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** — Place the unit on a flat, even surface.
4 **Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm (4 in.) clearance from the rear and the top of the unit, and 5 cm (2 in.) from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** — Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** — When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.

7 **Condensation** — Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** — The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

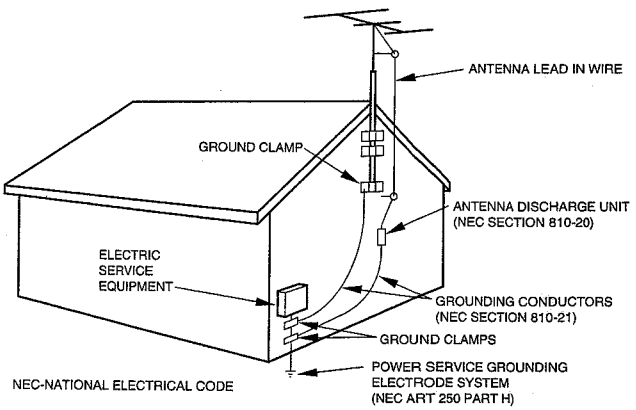
1 **Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
2 **Polarization** — As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.
3 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be routed to avoid being severely bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC power plugs and extension cords beyond their capacity, as this could result in fire or shock.

4 **Extension cord** — To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.
5 **When not in use** — Unplug the AC power cord from the AC power plug if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Outdoor Antenna

1 **Power lines** — When connecting an outdoor antenna, make sure it is located away from power lines.
2 **Outdoor antenna grounding** — Be sure the antenna system is properly grounded to provide protection against unexpected voltage surges or static electricity build-up. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information on proper grounding of the mast, supporting structure, and the lead-in wire to the antenna discharge unit, as well as the size of the grounding unit, connection to grounding terminals, and requirements for grounding terminals themselves.

Antenna Grounding According to the National Electrical Code



Maintenance

Clean the unit only as recommended in the Operating Instructions.

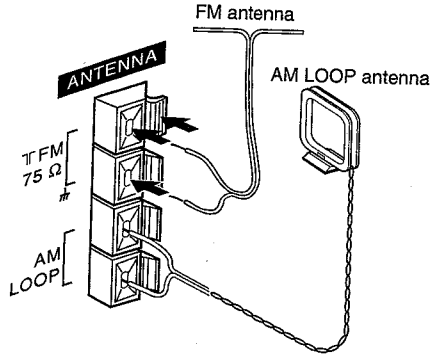
Damage Requiring Service

Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have gotten inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

3 Connect the supplied antennas.

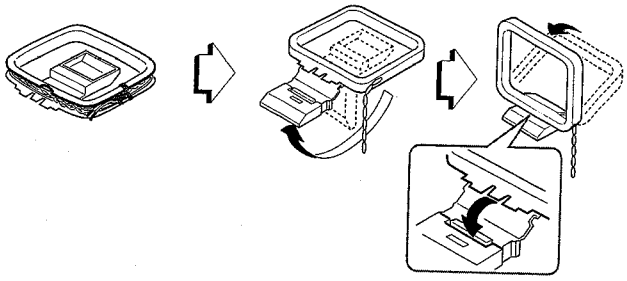
Connect the FM antenna to the FM 75 Ω terminals and the AM antenna to the AM LOOP terminals.



4 Connect the AC cord to an AC outlet.

To stand the AM antenna on a surface

Fix the claw to the slot.



To position the antennas

FM feeder antenna:

Extend this antenna horizontally in a T-shape and fix its ends to the wall.

AM loop antenna:

Position to find the best direction.

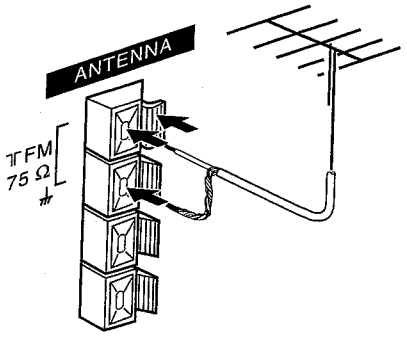
NOTE

- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in the SPEAKERS terminals.
- Do not leave objects generating magnetism near the speakers.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the AM antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the AM antenna wire.

CONNECTING AN OUTDOOR ANTENNA

For better FM reception, use of an outdoor antenna is recommended.

Connect the outdoor antenna to the FM 75 Ω terminals.

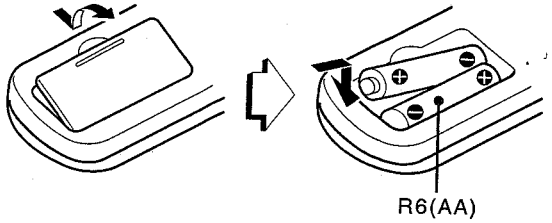


To connect other optional equipment → page 20.

REMOTE CONTROL

Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



When to replace the batteries

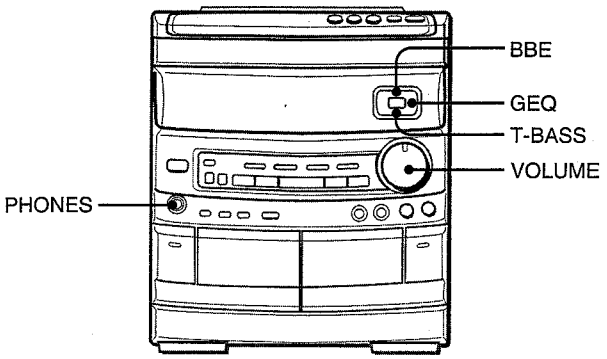
The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

NOTE

- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the remote sensor inside the display window is exposed to intense light, such as direct sunlight
  - Other remote controls are used nearby (television, etc.)

ADJUSTING THE SOUND

Your speakers feature the Front 180° system with uni-directional speakers and built-in surround speakers pointed inward at angles of 45°. You can get an optimal stereo effect not only directly in front of the speakers but also when off the center line between the speakers.



VOLUME CONTROL

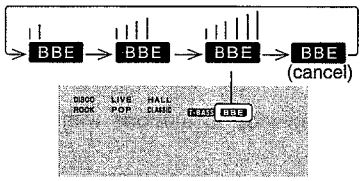
Turn the VOLUME control on the main unit, or press the VOLUME buttons on the remote control.

BBE SYSTEM

The BBE system enhances the clarity of high-frequency sound. It also enriches the KARAOKE function to make your voice sound clear and pleasant.

Press the BBE button.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.

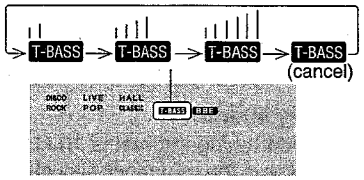


SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.

Press the T-BASS button.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.



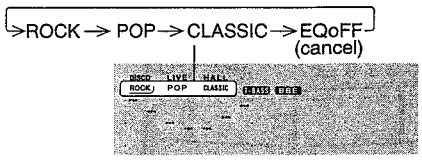
NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

GRAPHIC EQUALIZER

This unit provides the following three different equalization curves.
ROCK: Powerful sound emphasizing treble and bass
POP: More presence in the vocals and midrange
CLASSIC: Enriched sound with heavy bass and fine treble

Press the GEQ button repeatedly until the desired equalization curve is displayed.



SOUND ADJUSTMENT DURING RECORDING

The output volume and tone (except BBE) of the speakers or headphones may be freely varied without affecting the level of the recording.

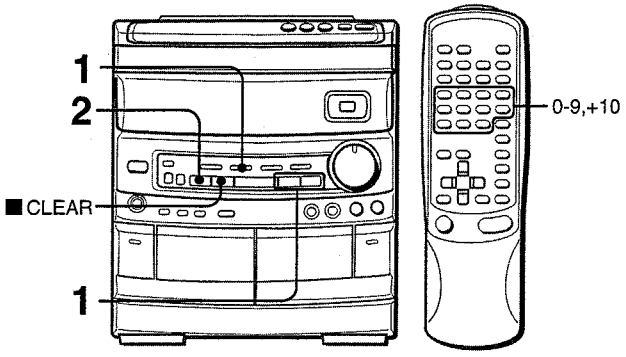
Recording with BBE

The desired source can be recorded with the BBE function to enhance the clarity of high-frequency sound. When playing back a tape recorded with BBE, it is recommended that BBE be set to off.

Using the headphones

Connect headphones to the PHONES jack with a stereo standard plug (ø6.3 mm, 1/4 inch).
No sound is output from the speakers while the headphones are plugged in.

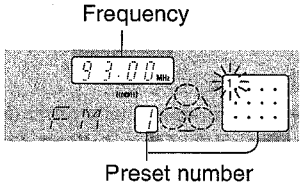
PRESETTING STATIONS



The unit can store a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

1 **Press the TUNER/BAND button to select a band, and press the ⏮ DOWN or ⏭ UP button to select a station.**

2 **Press the ▮▮ SET button to store the station.**
A station is assigned a preset number, beginning from 1 in consecutive order for each band.



3 **Repeat steps 1 and 2.**
The next station will not be stored if a total of 32 preset stations have already been stored for all the bands.

PRESET NUMBER TUNING

Use the remote control to select the preset number directly.

1 **Press the TUNER/BAND button to select a band.**

2 **Press the numeric buttons to select a preset number.**
Example:
To select preset number 25, press the +10, +10 and 5 buttons.
To select preset number 10, press the +10 and 0 buttons.

Selecting a preset number on the main unit
Press the TUNER/BAND button to select a band. Then, press the ◀▶ DIRECTION/PRESET button repeatedly.
Each time the button is pressed, the next highest number is selected.

To clear a preset station
Select the preset number of the station to be cleared. Then, press the ■ CLEAR button, and press the ▮▮ SET button within 4 seconds.
The preset numbers of all other stations in the band with higher numbers are also decreased by one.

RANDOM PLAY

All the tracks on the selected disc or on all the discs can be played randomly.

Press the RANDOM button on the remote control.

RANDOM lights up on the display.

To cancel random play, press again.

NOTE

- Even if the ◀◀ button is pressed, a previously played track cannot be skipped. The unit returns to the beginning of the current track only.
- Direct selection of the tracks with the numeric buttons is not possible.

REPEAT PLAY

A single disc or all the discs can be played repeatedly.

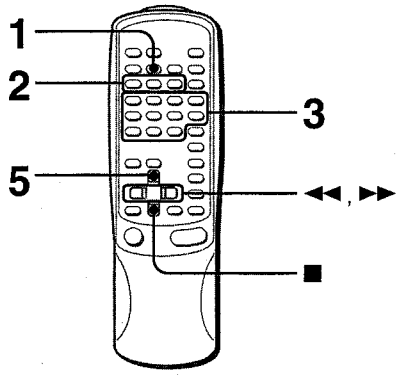
Press the REPEAT button on the remote control.

⊂ lights up on the display.

To cancel repeat play, press again.

PROGRAMMED PLAY

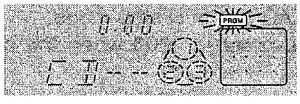
Up to 30 tracks can be programmed from any of the inserted discs.



Use the remote control.

***1* Press the PRGM button twice in stop mode.**

The PRGM indicator flashes on the display.



- When the PRGM button is pressed once in step 1, the unit enters the KARAOKE PROGRAMS (page 18).

***2* Press one of the DISC DIRECT PLAY buttons to select a disc.**

The selected disc is indicated in red on the display.

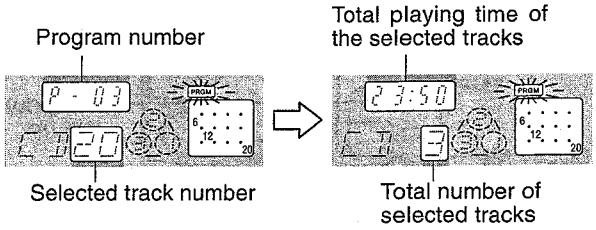
Go to the next step when the tray stops rotating.

***3* Press the numeric buttons and the +10 button to program a track.**

Example:

To select the 25th track, press the +10, +10 and 5 buttons.

To select the 10th track, press the +10 and 0 buttons.



***4* Repeat steps 2 and 3 to program other tracks.**

***5* Press the ◀▶ button to start play.**

To check the program

Each time the ◀◀ or ▶▶ button is pressed in stop mode, a disc number, track number, and program number will be displayed.

To clear the program

Press the ■ CLEAR button in stop mode.

To add tracks to the program

Before playing, repeat steps 2 and 3. The track will be programmed after the last track.

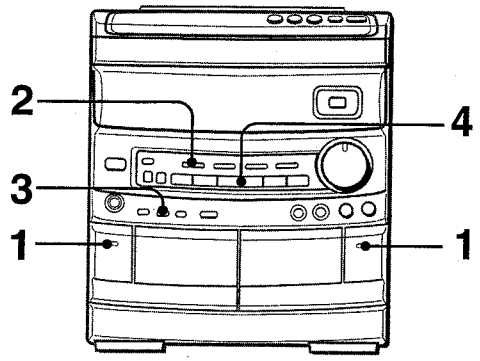
To change the programmed tracks

Clear the program and repeat all the steps again.

NOTE

During the programmed play, the CD EDIT/CHECK, DISC CHANGE, RANDOM, DISC DIRECT PLAY and numeric buttons do not function.

CONTINUOUS PLAY



After playback on one deck finishes, the tape in the other deck will start to play without interruption.

1 **Insert tapes into deck 1 and deck 2.**

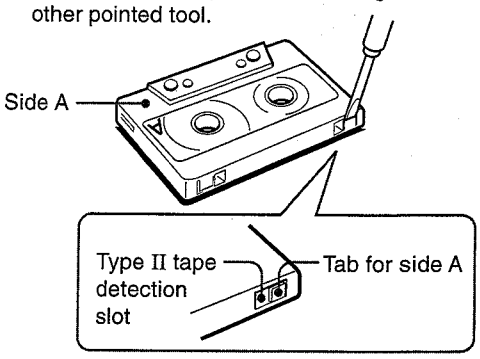
2 **Press the TAPE/DECK1/2 button to select the deck to be played back first.**

3 **Press the REV MODE button to select ⇄.**

4 **Press the ◀▶ button to start playback.**
Playback continues until the ■ button is pressed.

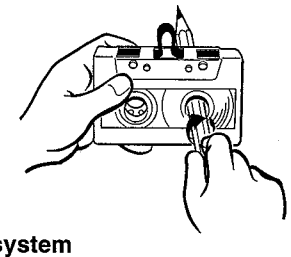
About cassette tapes

- **To prevent accidental erasure,** break off the plastic tabs on the cassette tape after recording with a screwdriver or other pointed tool.



To record on the tape again, cover the tab openings with adhesive tape, etc. (On Type II tapes, take care not to cover the Type II tape detection slot.)

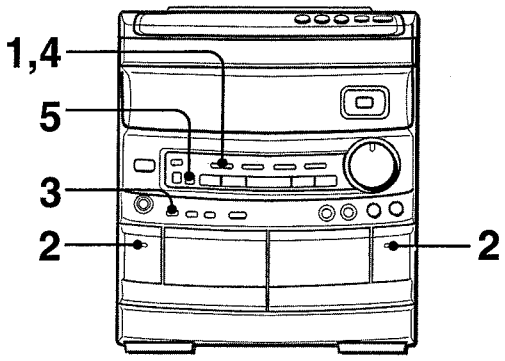
- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in** the tape with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



DOLBY NR system

The Dolby Noise Reduction system reduces tape hiss noise. For optimum performance when playing back a tape recorded with the DOLBY NR system, turn on the DOLBY NR system.

DUBBING A TAPE MANUALLY



Preparation
- Set the tape to the point where recording will start.
- The reverse mode is automatically set to ⇄.
  Note that recording will be done on one side of the tape only.

1 **Press the TAPE button.**

2 **Insert the original tape into deck 1 and the tape to be recorded on into deck 2.**
Insert the tapes with the sides to be played back or recorded on first facing out from the unit.

3 **Press the DOLBY NR button to turn off the Dolby NR.**
DD NR on the display goes out.

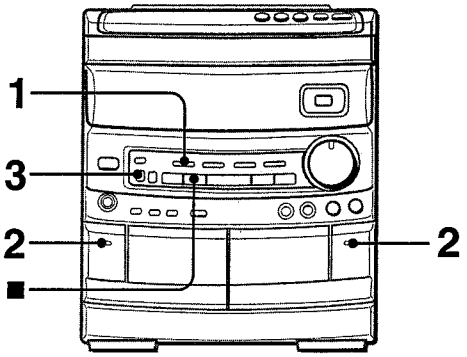
4 **Press the TAPE/DECK 1/2 button to select deck 1.**
TAPE 1 is displayed.

5 **Press the ● REC/REC MUTE button to start recording.**
Playing and recording start simultaneously.

To stop dubbing
Press the ■ button.

To set the Dolby NR when playing back the dubbed tape
Press the DOLBY NR button and turn Dolby NR on or off to match the original tape.

DUBBING THE WHOLE TAPE



This function allows you to make exact copies of both sides of the original tape. The reverse side of both tapes will start simultaneously as soon as the longer tape has been reversed.

NOTE
- Dubbing does not start from a point halfway in the tape.
- The reverse mode is automatically set to ⇄.
- The Dolby NR does not affect recording.

1 **Press the TAPE button.**

2 **Insert the original tape into deck 1 and the tape to be recorded on into deck 2.**
Insert each tape with the side to be played back or recorded on first facing out from the unit.

3 **Press the SYNC DUB button once or twice to start recording.**
① **For recording at normal speed,** press it once to display N-DUB.
② **For recording at high speed,** press it twice to display H-DUB.

①

②

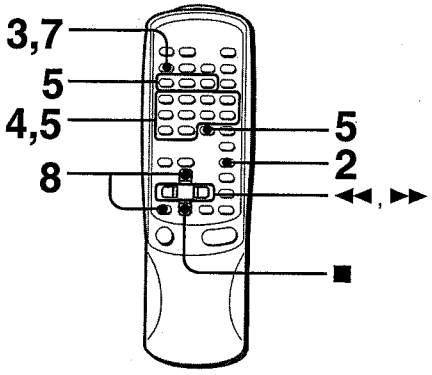
The tapes are rewound to the beginning of the front sides, and recording starts.

To stop dubbing
Press the ■ button.

To set the Dolby NR when playing back the dubbed tape
Press the DOLBY NR button and turn Dolby NR on or off to match the original tape.

NOTE
- Recording does not start if the erasure prevention tab on either side of the tape is broken off.
- If the leader segment of the tape to be recorded on is longer than that of the original tape, recording on the reverse side may stop midway through the recording. In this case, dub each side manually following the procedure in "DUBBING A TAPE MANUALLY".

PROGRAMMED EDIT RECORDING



Programmed edit function enables CD recording while checking the remaining time on each side of the tape as the tracks are programmed.

NOTE

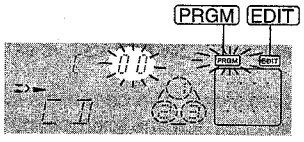
The programmed edit recording will not start from a point halfway in the tape. The tape must be recorded from the beginning of either side.

Use the remote control from steps 3 to 8.

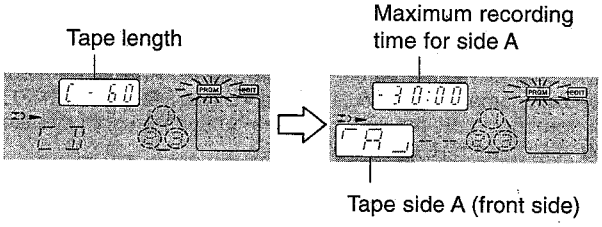
1 **Insert the tape into deck 2, and press the DOLBY NR button to turn Dolby NR on or off.**
Insert the tape with the side to be recorded on first facing out from the unit.

2 **Press the CD button and load the disc(s).**

3 **Press the EDIT/CHECK button twice.**
"EDIT" lights up and "PRGM" flashes on the display.

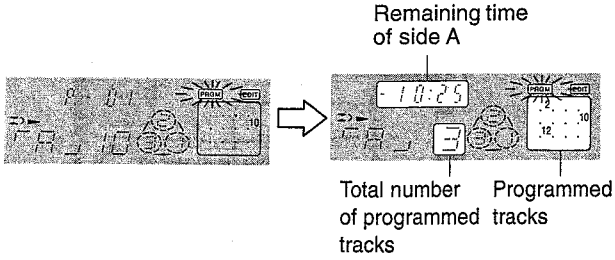


4 **Press the numeric buttons to designate the tape length.**
10 to 99 minutes can be specified.
Example: When using a 60-minute tape, press the 6 and 0 buttons.

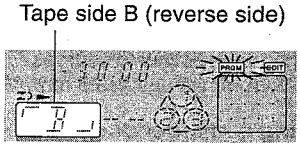


5 **Press one of the DISC DIRECT PLAY buttons to select a disc and press the numeric buttons to program a track.**
Example: To select the 10th track of disc 2, press DISC DIRECT PLAY 2 and the numeric buttons +10 and 0.

6 **Repeat step 5 for the rest of the tracks for side A.**
A track whose playing time is longer than the remaining time cannot be programmed.



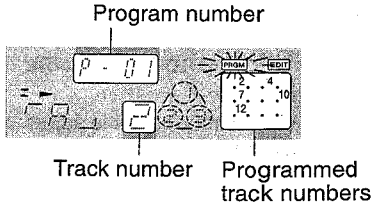
7 **Press the EDIT/CHECK button to select side B and program the tracks for side B.**
After confirming B on the display, repeat step 5.



8 **Press the ●/○ REC/REC MUTE button and then press the ◀▶ button within 2 seconds to start recording.**
The tape is rewound to the beginning of the front side, the lead segment is played through for 10 seconds, and recording starts. When recording on the front side (A) ends, recording on the back side (B) starts.

To stop recording
Press the ■ button. Recording and CD play stop simultaneously.

To check the order of the programmed track numbers
Before recording, press the EDIT/CHECK button to select side A or B, and press the ◀◀ or ▶▶ button repeatedly.



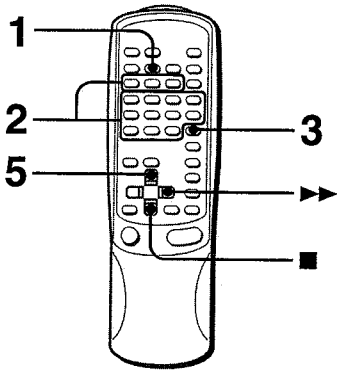
To change the program of each side
Press the EDIT/CHECK button to select side A or B, and press the ■ CLEAR button to clear the program of the selected side. Then program tracks again.

To clear the edit program
Press the ■ button twice so that "EDIT" disappears on the display.

NOTE

Recording is inhibited if the erasure prevention tab on either side of the tape is broken off.

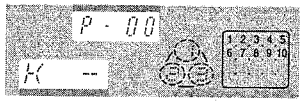
KARAOKE PROGRAMS



Before or during CD play, you can reserve up to 15 tracks to be played after the current track. Each reservation is cleared when it finishes playing.

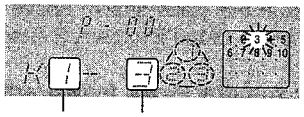
Use the remote control.

***1* Press the PRGM button once.**



***2* Press one of the DISC DIRECT PLAY buttons to select a disc and the numeric buttons to select a track.**

***3* Press the KARAOKE ENTER button.**

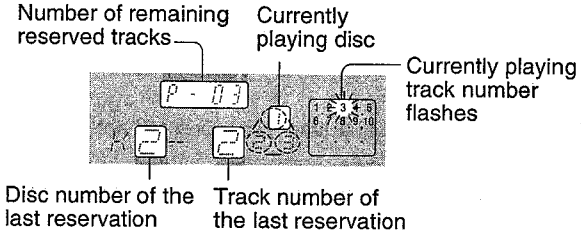


Reserved disc number Reserved track number

***4* Repeat steps 2 and 3 to reserve other tracks.**

***5* Press the ◄► button to start play.**

After a track is played, it is cleared from the program. Another track can be reserved in place of the cleared track.


Number of remaining reserved tracks
Currently playing disc
Currently playing track number flashes
Disc number of the last reservation
Track number of the last reservation

To add a reservation during play

Repeat steps 2 and 3.

To check the reserved tracks

Press the EDIT/CHECK button repeatedly. Each time it is pressed, the disc number and track number are displayed in the reserved order.

To stop play

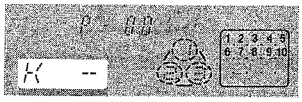
Press the ■ button. Press the ◄► button to start again.

To skip a track

Press the ►► button. The skipped track is cleared from the program.

To clear all the reservations

Press the ►► button repeatedly until "K -" is displayed.



Press it once more to cancel the Karaoke programs. The display returns to that of CD play.

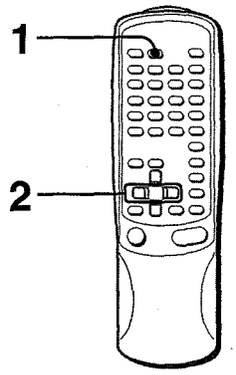
NOTE

- If the reserved track number does not exist on the selected disc, the unit stops playing and the display flashes. In this case, press the ►► button to skip the error track. Then press the ◄► button to start play with the next reserved track.
- When the PRGM button is pressed repeatedly in step 1, PRGM is displayed and the unit enters CD program play mode (page 10). To cancel program play, press the ■ CLEAR button.

KARAOKE

En

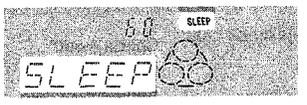
SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

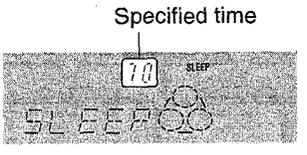
Use the remote control.

1 **Press the SLEEP button.**



2 **<u>Within 4 seconds</u>, press the ◀◀ or ▶▶ button to specify the time until the power is turned off.**
Each time the button is pressed, the time changes between 10 and 240 minutes in 10-minute steps.

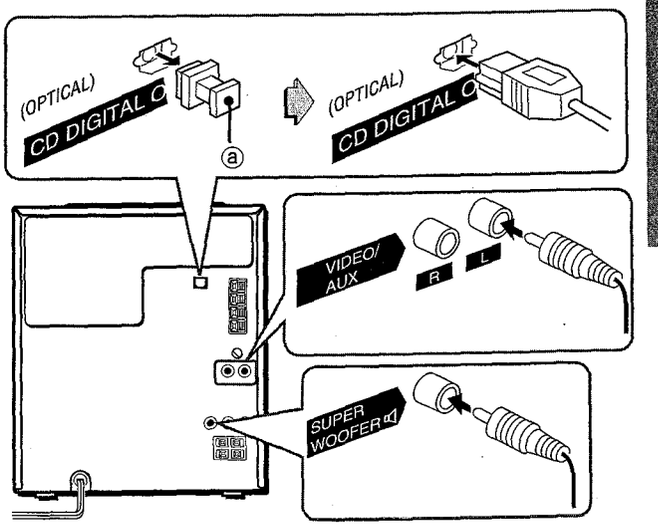
Specified time



To check the time remaining until the power is turned off
Press the SLEEP button once. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Press the SLEEP button twice so that "SLEEP" on the display disappears.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.

- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

VIDEO/AUX JACKS

This unit can input analog sound signals through these jacks. Use a cable with RCA phono plugs to connect audio equipment (turntables, LD players, VCRs, TV, etc.).
Connect the red plug to the R jack, and the white plug to the L jack.

When connecting a turntable
Use an Aiwa turntable equipped with a built-in equalizer amplifier.

CD DIGITAL OUT (OPTICAL) JACK

This unit can output CD digital sound signals through this jack. Use an optical cable to connect digital audio equipment (digital amplifier, DAT deck, MD recorder, etc.).
Remove the dust cap ⓐ from the CD DIGITAL OUT (OPTICAL) jack. Then, connect an optical cable plug to the CD DIGITAL OUT (OPTICAL) jack.

When the CD DIGITAL OUT (OPTICAL) jack is not being used
Attach the supplied dust cap.

SUPER WOOFER 🔊 JACK

Connect an optional powered sub woofer with a built-in-amplifier to the jack.

SPECIFICATIONS

Main unit CX-NV8000

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

Amplifier section

Power output	60 watts per channel, Min. RMS at 6 ohms, from 50 Hz to 20 kHz, with no more than 1% Total Harmonic Distortion
Total harmonic distortion	0.1 % (30 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 150 mV (adjustable) MIC 1, MIC 2: 1 mV (10 kohms)
Outputs	SUPER WOOFER: 1.9 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 16 ohms or more PHONES (stereo jack): accepts headphones of 32 ohms or more

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise ratio	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head × 1 Deck 2: Recording/playback/ erase head × 1

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

Speaker system SX-ANV8000

Cabinet type	4 way, bass reflex with surround speaker (magnetic sealed type)
Speakers	Woofer: 140 mm (5⅝ in.) cone type Mid-range: 80 mm (3¼ in.) cone type Tweeter: 50 mm (2 in.) cone type Super tweeter: 20 mm (13/16 in.) ceramic type Surround speaker: 80 mm (3¼ in.) cone type
Impedance	Front speaker: 6 ohms Surround speaker: 16 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W × H × D)	235 × 310 × 270 mm (9⅜ × 12¼ × 10¾ in.)
Weight	4.3 kg (9 lbs 8 oz.)

General

Power requirements	120 V AC, 60 Hz
Power consumption	135 W
Dimensions of main unit (W × H × D)	260 × 307 × 349 mm (10¼ × 12⅛ × 13¾ in.)
Weight of main unit	7.8 kg (17 lbs 3 oz.)

Specifications and external appearance are subject to change without notice.

BBE SYSTEM
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DOLBY NR

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Principle of Aiwa's Front 180° Speaker System

Aiwa's Front 180° Speaker System provides excellent sound balance for true stereo reproduction from any listening angle.

In stereo sound reproductions systems up to now, the listening area where the optimal stereo effect is obtained has been extremely narrow. This is due to the following reasons.
As shown in Figure 2, a conventional stereo system has speakers on the front panel of the speaker system, pointing forward. It is designed for listening in a location directly in front of the front speaker panel.
In this case, as shown in Figure 2, a listener at point ⓐ, located on the center line between the right and left speakers, hears the voice of a singer coming from the center front. Instrumental sounds are distributed evenly between both speakers for an optimal stereo effect.
At point ⓑ, however, located off the center line between the speakers, the distance from the left speaker to the listener is greater than the distance from the right speaker. Sound from the left speaker appears to be faint, and sound from the right speaker appears to be loud. Sound is perceived as coming from the speaker with the greater volume, so that the singer's voice appears to shift toward the right speaker. The normally balanced instrumental sounds also appear to come primarily from the right speaker.
Moreover, since the directivity of speakers increases with higher frequencies, high-frequency sounds from the left speaker become even harder to hear, increasing the impression of imbalance. For these reasons, the listening area which provides even sound balance and the optimal stereo effect is limited to the narrow area shown in Figure 2-ⓐ.

To solve this problem, Aiwa has developed uni-directional speakers for this new speaker system featuring cardioid directivity for frequencies of 1 kHz or less. These speakers are pointed inward at angles of 45° (see Figure 1). Driven by left and right stereo sound signals, these speakers act to increase the width of the optimum listening area (see Figure 3). Because of their cardioid directivity and the 45° angle of their main speaker axis, they provide enhanced sound reproduction at point ⓑ in Figure 3. The left speaker is pointed toward the listener, and the right speaker is pointed away from the listener, so that the directivity of the speakers compensates for the differences in perceived volume caused by the differences in distance to the listener. Therefore, the sound of a singer's voice is perceived as coming from a point midway between the speakers, and instrumental sounds are distributed evenly.

Figure 1 **Front 180° speaker system**

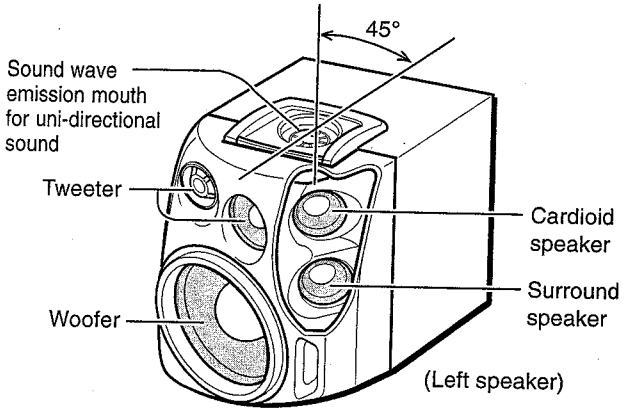
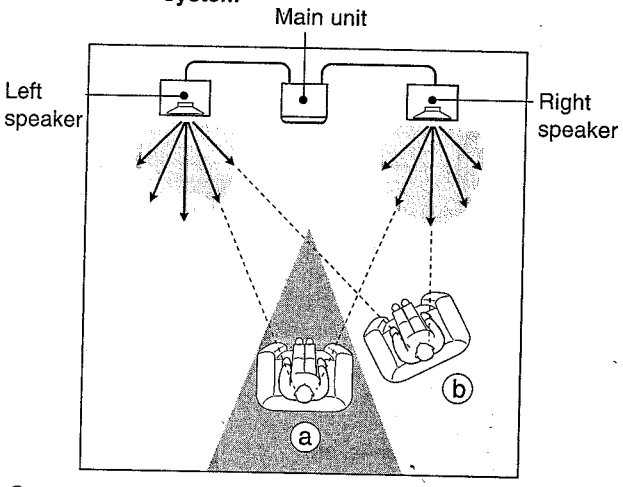


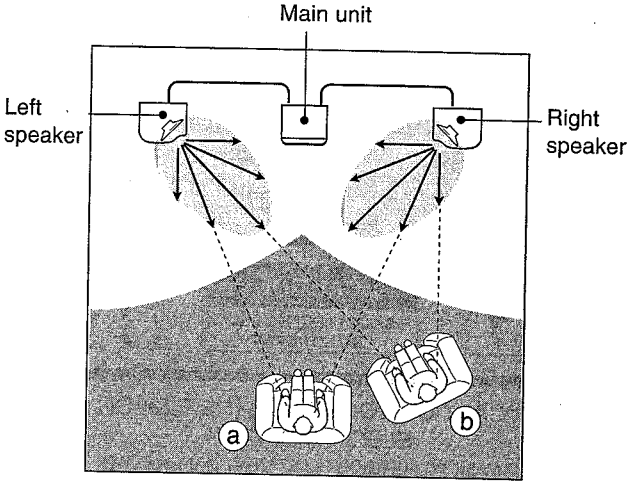
Figure 2 **Stereo effect with a conventional speaker system**



ⓐ Center listening point: Balanced sound heard from left and right speakers
ⓑ Off-center listening point: Right speaker sounds louder than left speaker
→: Sound pressure level
▒: Stereo listening area

Figure 3 **Stereo effect with Aiwa Front 180° speaker system**

True stereo sound can be heard at point ⓑ as well as point ⓐ.



→: Sound pressure level
▒: Stereo listening area of new speakers